



## ADM231X-3 Multi - Channel Isolator

- ★ Suitable for any process inputs
- ★ Inputs & outputs in any combination
- ★ Supply Voltage 24Vdc  $\pm 2.5V$  only
- ★ Amelec Standard 10 year guarantee

### Environmental Conditions

|                     |             |
|---------------------|-------------|
| Storage Temperature | -40 to 70°C |
| Operating Ambient   | -15 to 55°C |
| Relative Humidity   | 5-95 % RH   |

### Technical Specifications

#### Input

Up to 5 Inputs available.

Any current or voltage drive that can be terminated in a PI network to produce a 400mV span

#### Output

Up to 5 Outputs available.

Any standard process current or voltage

Current source up to 20mA @ 12V

Voltage source up to 10V @ 20mA max

#### Isolation

750V dc Inputs/Outputs/Supply

Linearity  $\pm 0.1\%$

### Input Load / Output drive

#### Typical input

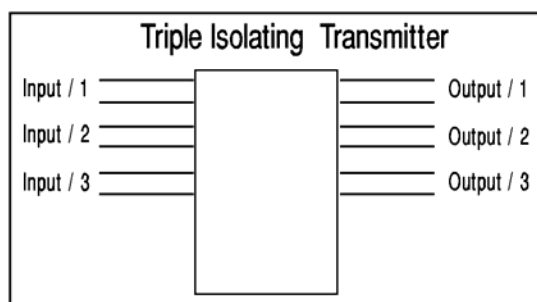
Current 4-20mA 20 $\Omega$

Voltage 1-5Vdc 1M $\Omega$

#### Typical output

Current 4-20mA max load 500 $\Omega$

Voltage 1-5Vdc min load 250 $\Omega$



|                                                                 |                                      |    |                                      |    |                                      |    |                                     |    |    |    |    |    |  |
|-----------------------------------------------------------------|--------------------------------------|----|--------------------------------------|----|--------------------------------------|----|-------------------------------------|----|----|----|----|----|--|
|                                                                 | 24                                   | 23 | 22                                   | 21 | 20                                   | 19 | 18                                  | 17 | 16 | 15 | 14 | 13 |  |
|                                                                 | <sup>+</sup> O/P 1<br>⊗ RZ1<br>⊗ RS1 |    | <sup>+</sup> O/P 2<br>⊗ RZ2<br>⊗ RS2 |    | <sup>+</sup> O/P 3<br>⊗ RZ3<br>⊗ RS3 |    |                                     |    |    |    |    |    |  |
| <div>AMELEC INSTRUMENTS LTD.</div> <div>Tel: 01908 567003</div> |                                      |    |                                      |    |                                      |    |                                     |    |    |    |    |    |  |
|                                                                 | INPUT 1<br><sup>+</sup> <sup>-</sup> |    | INPUT 2<br><sup>+</sup> <sup>-</sup> |    | INPUT 3<br><sup>+</sup> <sup>-</sup> |    | SUPPLY<br><sup>+</sup> <sup>-</sup> |    |    |    |    |    |  |
|                                                                 | 1                                    | 2  | 3                                    | 4  | 5                                    | 6  | 7                                   | 8  | 9  | 10 | 11 | 12 |  |

Note: In addition to having multi channel devices, it is possible to incorporate a trip function within this enclosure.

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